



NC/QC/2020-21/W12-SCR-W1

Date: 13-05-2020

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Construction of Cement Concrete Roads and other works at Shettyhalli colony roads in Ward No.12 Shettyhalli Sub division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

I. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.42	95-100
26.50	---	-
22.40	73.45	60-80
11.20	48.27	40-60
4.75	29.69	25-40
2.36	20.33	15-30
0.600	15.69	8-22
0.075	3.89	0-5

Page No. 1/2,



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ನಕಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
ಪಟ್ಟಣ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.



NC/QC/2020-21/W12-SCR-C1

Date: 20-05-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Construction of Cement Concrete Roads and other works at Shettyhalli colony roads in Ward No.12 Shettyhalli Sub division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	153 min	Shall not be less than 30 min
2	Final setting time	272 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.95 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.30 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.90. N/Sq mm	Shall not be less than 27 N/Sqmm

Page No. 1/1,

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NC/QC/2020-21/W12-SCR-PCC3

Date: 26-05-2020

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Construction of Cement Concrete Roads and other works at Shettyhalli colony roads in Ward No.12 Shettyhalli Sub division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40mm	100.00	85-100	90 - 100
20mm	64.25	0 -20	30- 70
10mm	27.90	0 -5	10- 35
4.75mm	4.15	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	95.25	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	82.10	60-95	75-100	85-100	
01.18	73.90	30-70	55-90	75-100	
600.mic	46.35	15-34	35-59	60-79	
300.mic	18.05	5-20	8-30	12-40	
150.mic	8.45	0-10	0-10	0-10	

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Page No. 1/1,





NC/QC/2020-21/W12-SCR-CA1

Date: 30-05-2020

1. TESTING OF COARSE AGGREGATES (20 mm);

Sub: Testing of Construction Materials.

{Project*: Construction of Cement Concrete Roads and other works at Shettyhalli colony roads in Ward No.12 Shettyhalli Sub division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
		Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	96.05	85-100	90 - 100
10 mm	41.20	0 - 20	25 - 55
4.75 mm	3.95	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) - 1963 (Reaffirmed on 2002)
1.	Flakiness Index	26.47 %	Not to exceed 25 %
2.	Crushing value	28.71 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

Page No. 1/1

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.





NC/QC/2020-21/W12-SCR-CB5

Date: 15-06-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Construction of Cement Concrete Roads and other works at Shettyhalli colony roads in Ward No.12 Shettyhalli Sub division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M30

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	08-06-20	15-06-20	07	22500	570	25.33	24.96
	002	"	"	"	"	555	24.67	
	003	"	"	"	"	560	24.89	

Page No. 1/1,

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NC/QC/2020-21/W12-SCR-CB7A

Date: 07-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Construction of Cement Concrete Roads and other works at Shettyhalli colony roads in Ward No.12 Shettyhalli Sub division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M30

TABLE 1.1:

SI No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	09-06-20	07-07-20	28	22500	740	32.89	33.26
	002	"	"	"	"	755	33.56	
	003	"	"	"	"	750	33.33	

Page No. 1/1,

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